## INTERNATIONAL SEARCH REPORT

International application No.

		PCT	/JP2004/013429
A. CLASSIFICA	ATION OF SUBJECT MATTER		
Int.Cl'	F16J15/32		
According to Inter	national Patent Classification (IPC) or to both nation	al classification and IPC	
B. FIELDS SEA			<del></del>
	ntation searched (classification system followed by cl		
Int.Cl7	F16J15/32	assification symbols)	
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Documentation sea	arched other than minimum documentation to the exte		
Jitsuyo S	Shinan Koho 1922–1996 Ji	tsuyo Shinan Toroku Kol	n the fields searched ho 1996–2004
Kokai Jit	suyo Shinan Koho 1971-2004 To	proku Jitsuyo Shinan Kol	no 1994-2004
Electronic data has	se consulted during the international search (name of	<del>-</del>	
2.00.0110 0010 00	se consumed downing the international scarcii (name of	data hase and, where practicable, se	earch terms used)
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C DOCIDARY	CONCEDED TO BE ASSESSED.	<u> </u>	<del></del>
C. DOCUMENT	S CONSIDERED TO BE RELEVANT	·	
Category*	Citation of document, with indication, where a	propriate, of the relevant passages	Relevant to claim No.
Y	JP 02-46371 A (NOK Kabushiki	Kaisha).	1,3
1	15 February, 1990 (15.02.90)	•	1,3
·	Page 2, upper left column, 1:	ines 7 to 9;	
•.	lower left column, line 10 to	page 3, upper	
	left column, line 6; Fig. 1 & US 5104603 A	•	
	column 2, line 59 to column 3	3. line 38	
	•	•	
Y	JP 2003-35371 A (NOK Kabushi	ki Kaisha),	1,3
Ì	07 February, 2003 (07.02.03), Fig. 1	•	
	(Family: none)		
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× Further docu	aments are listed in the continuation of Box C.	Sec patent family annex.	
	ries of cited documents:		
"A" document defi	ining the general state of the art which is not considered	"T" later document published after date and not in conflict with the	the international filing date or priority application but cited to understand
to be of particu	iiai icievance	the principle of theory underlying	ng the invention
filing date	tion or patent but published on or after the international	"X" document of particular relevance	e; the claimed invention cannot be considered to involve an inventive
"L" document whi	ch may throw doubts on priority claim(s) or which is	step when the document is take	n alone
special reason	lish the publication date of another citation or other (as specified)	"Y" document of particular relevance	e; the claimed invention cannot be entive step when the document is
"O" document refer	rring to an oral disclosure, use, exhibition or other means	combined with one or more oth	er such documents, such combination
"P" document publ the priority dat	lished prior to the international filing date but later than te claimed	being obvious to a person skille "&" document member of the same	
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Date of the actual c	completion of the international search	Date of mailing of the internation	al search report
03 Decem	ber, 2004 (03.12.04)	21 December, 20	04 (21.12.04)
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Name and mailing	address of the ISA/	Authorized officer	
Japanese	Patent Office	,	
Facsimile No.		Telephone No.	
	(second sheet) (January 2004)	Telephone No.	

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International application No.
PCT/JP2004/013429

(Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT		·
Category*	Citation of document, with indication, where appropriate, of the releva	ant passages	Relevant to claim No
X Y	JP 56-150670 A (Carl Freudenberg), 21 November, 1981 (21.11.81), Page 3, upper left column, line 9 to lowe right column, line 10; Figs. 1 to 3 & US 4288083 A column 2, line 26 to column 3, line 26 & EP 33963 A2 & DE 3163556 D		2 3
Y	JP 10-252898 A (NOK Kabushiki Kaisha), 22 September, 1998 (22.09.98), Par. Nos. [0010], [0013] to [0027]; Figs. 1, 2 (Family: none)		3
Y	JP 11-351405 A (NOK Kabushiki Kaisha), 24 December, 1999 (24.12.99), Fig. 2 (Family: none)		3
Υ -	Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 18632/1989 (Laid-ope No. 109076/1990) (Arai Pump Mfg. Co., Ltd.), 30 August, 1990 (30.08.90), Page 5, lines 5 to 14; Fig. 1 (Family: none)	v	2
Y	Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 90150/1989(Laid-oper No. 29768/1991) (Honda Motor Co., Ltd.), 25 March, 1991 (25.03.91), Page 12, line 13 to page 15, line 16; Figs. 2, 3 (Family: none)	v l	
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